MATERIAL SAFETY DATA SHEET

DPM 6060

Sealed Air Corporation
Old Sherman Tnpk., Danbury, CT 06810, (203) 792-2360

FIRE 1 | HEALTH 2 | REACTIVITY 1 | SPECIFIC HAZARD W

ISSUE DATE Nov. 1985
SUPERSEDES ISSUE OF Sept. 1984

EMERGENCY TELEPHONE NO: (203) 792-2360
CHEMTREC (For spill, leak, fire, exposure or accident) 1-800-424-9300

PRODUCT NAME
INSTAPAK® COMPONENT "A" & "B"

CHEMICAL FAMILY	CHEMICAL NAME & SYNONYMS
Aromatic Isocyanates	Polymethylene Polyphenylisocyanate
CHEMICAL FORMULA	TRADE NAME & SYNONYMS
N.A.	Crude MDI

HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES	CAS #	%	CURRENT TLV
4,4' Diphenylmethane Diisocyanate (MDI)	101-68-8	~50	0.02 ppm
Higher molecular weight oligomers of MDI	9016-87-9	~50	N.E.

PHYSICAL DATA

APPEARANCE (SOLID, LIQUID, GAS)	MOLECULAR WEIGHT	MELT POINT	SPECIFIC GRAVITY
Liquid	Approx. 350	N.A.	1.24 @ 25°C
VAPOR DENSITY (AIR 1)	COLOR	BULK DENSITY	BOILING POINT
8.5	Dark Brown	10.3 lbs./gal.	625°F @ 760 mmHg
VAPOR PRESSURE	SOLUBILITY (WATER)	ODOR	% VOLATILE BY VOLUME
$<10^{-4}$ mmHg @ 25°C	Reacts with water	Slightly Aromatic	Nil

FIRE & EXPLOSION DATA

FLASH POINT °F (METHOD USED)	FLAMMABLE LIMIT	EXTINGUISHING MEDIA
390°F P.M.C.C.	Lel N.E. Uel N.E.	CO_2, Chemical foam, dry chemical, water spray

SPECIAL FIRE FIGHTING PROCEDURES, UNUSUAL FIRE OR EXPLOSION HAZARDS
Firefighters must wear self-contained breathing apparatus to protect against toxic and irritating vapors; full protective clothing should also be worn. Avoid water contamination in closed containers; carbon dioxide gas is evolved which can cause pressure build-up.

Caution: Reaction between water and hot isocyanate can be vigorous.

TOXICITY DATA

LD50, ORAL (INGESTION)	LD50, DERMAL (SKIN CONTACT)	INHALATION (LC50)
>20 g/Kg (Rats)	>15.8 g/Kg (Rabbits)	~370 mg/M^3 (Rats-4 hrs.)
FISH, LC50 (LETHAL CONCENTRATION) >500 mg/l Daphnea Limnea, Invertebrates	TLV (UNITS) (THRESHOLD LIMIT VALUE) 0.02 ppm (MDI)	SKIN IRRITATION Moderate. Skin sensitization possible in some people.
EFFECTIVE TO EYE Irritant	EFFECTS TO LUNG Irritant to upper respiratory tract.	OTHER

EMERGENCY AND FIRST AID PROCEDURES, EFFECTS OF OVER EXPOSURE
Primary route of exposure is via inhalation. Overexposure may lead to mucous membrane irritation, tightness of chest, respiratory tract irritation, coughing, headache, shortness of breath. May lead to allergic sensitivity in some individuals resulting in asthma-like symptoms upon exposures below TLV. Sensitized persons should be removed from any further exposure. Persons with asthma-type conditions, or other chronic respiratory diseases should be excluded from working with MDI.

EYE CONTACT: Flush with water 15 minutes. Consult physician.
SKIN CONTACT: Wash area thoroughly with soap and water. Launder clothes before reuse.
INGESTION: Drink water to reduce corrosivity, consult physician.
INHALATION: Remove to uncontaminated area, administer oxygen if necessary. However, due to low vapor pressure, overexposure not expected under normal conditions unless material is heated or used in a poorly ventilated area.

N.E. = NOT ESTABLISHED N.A. = NOT APPLICABLE A.I. = ACTIVE INGREDIENT

REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
Stable	Avoid temperatures above 120°F or below 32°F
POLYMERIZATION	CONDITIONS TO AVOID
May occur	Contact with moisture and other materials which contain active hydrogen.

INCOMPATABILITY (MATERIALS TO AVOID)

Water, amines, strong bases, alcohols, surface-active materials.

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon, oxides of nitrogen, traces of hydrogen cyanide.

SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Spill should be covered with loose absorbent material (sawdust, vermiculite). Pour decontamination solution over spill area, allow to react at least 10 min., collect material in open containers and treat with additional decontamination solution, allow to stand 24-48 hrs. Wash area with decontamination solution. Respirator protection and ventilation recommended during spill clean-up. Decontamination Sol: 90% water, 8% conc. ammonia, 2% detergent.

WASTE DISPOSAL METHOD

Incinerate or dispose of in accordance with existing Federal, State, and Local environmental control regulations. See also "Recommendations for the Safe Use and Handling of Instapak® Foam-In-Place Chemicals."

SPECIAL PROTECTION DATA

RESPIRATOR TYPE

For short term emergency situations at concentrations below TLV cannister-type masks equipped for organic vapors are acceptable; however, supplied air in areas where concentration exceeds TLV, self-contained units preferred.

EYE PROTECTION	GLOVES
Goggles and/or face shields	Chemical resistant rubber or plastic

OTHER PROTECTIVE EQUIPMENT

Safety shower, eye wash station, decontamination solution, ventilation to maintain isocyanate vapors below TLV of 0.02 ppm.

SPECIAL PRECAUTIONS & STORAGE DATA

STORAGE TEMPERATURE (OPTIMUM)	AVERAGE SHELF LIFE
Min. 20°F Max. 100°F	6 months

SPECIAL SENSITIVITY (HEAT, LIGHT, MOISTURE)

Reacts with moisture to produce carbon dioxide gas.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not reseal containers unless it is certain that no moisture contamination has occurred. Do not breath vapors or allow skin contact.

SHIPPING DATA

D.O.T. SHIPPING NAME		TECHNICAL SHIPPING NAME
N.A.		Polymeric Diphenylmethane Diisocyanate
D.O.T. HAZARD CLASSIFICATION	UN/NA NO.	R.Q.
Non-Regulated	UN 2207	N.A.
D.O.T. LABELS REQUIRED	LABEL	T.S.C.A. STATUS
None	N.A.	Listed
REASON FOR ISSUE:	FRT. CLASS BULK:	Isocyanate
Periodic Update	FRT. CLASS PKG:	Chemical NOI (Isocyanate) NMFC 60000

INITIATED BY:	TITLE:	APPROVED BY:	TITLE:
Charles T. Story	Environ. Manager	Dr. Mitchell Berger/Director, Chemical Opera.	
DATE INITIATED:		DATE APPROVED:	
November 1985		November 1985	

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MATERIAL SAFETY DATA SHEET

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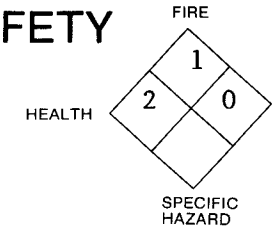

Sealed Air Corporation
Old Sherman Tnpk., Danbury, CT 06810, (203) 792-2360

ISSUE DATE Apr. 1986

SUPERSEDES ISSUE OF Nov. 1985

EMERGENCY TELEPHONE NO: (203) 792-2360
CHEMTREC (For spill, leak, fire, exposure or accident) 1-800-424-9300

PRODUCT NAME
INSTAPAK®-40 COMPONENT "B"

CHEMICAL FAMILY	CHEMICAL NAME & SYNONYMS
N.A.	Polyurethane Resin
CHEMICAL FORMULA	TRADE NAME & SYNONYMS
N.A.	Polyol

HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES	CAS #	%	CURRENT TLV
Trichloromonofluoromethane	75-69-4	15	1000 ppm
Diethanolamine	111-42-2	1.5	3 ppm

PHYSICAL DATA

APPEARANCE (SOLID, LIQUID, GAS)	MOLECULAR WEIGHT	MELT POINT	SPECIFIC GRAVITY
Liquid	N.A.	Approx. 20°F	1.09 @ 25°C
VAPOR DENSITY (AIR=1)	COLOR	BULK DENSITY	BOILING POINT
4	Clear, Straw	9.1 lbs./gal.	Approx. 100°F
VAPOR PRESSURE	SOLUBILITY (WATER)	ODOR	% VOLATILE BY VOLUME
900 mmHg @ 100°F	Soluble	Slight Flurorcarbon	15

FIRE & EXPLOSION DATA

FLASH POINT °F (METHOD USED)	FLAMMABLE LIMIT	EXTINGUISHING MEDIA
Not Flammable	Lel N.E. Uel N.E.	CO_2, Chemical foam, dry chemical, water

SPECIAL FIRE FIGHTING PROCEDURES, UNUSUAL FIRE OR EXPLOSION HAZARDS
A self-contained breathing apparatus should be worn to protect against oxygen deficient atmosphere and hazardous decomposition products. Over heating of containers can lead to rupture due to low boiling trichlorofluoromethane.

TOXICITY DATA

LD50, ORAL (INGESTION)	LD50, DERMAL (SKIN CONTACT)	INHALATION (LC50)
N.E.	N.E.	N.E.
FISH, LC50 (LETHAL CONCENTRATION)	TLV (UNITS) (THRESHOLD LIMIT VALUE)	SKIN IRRITATION
N.E.	N.E.	Repeated contact may be irritating.
EFFECTIVE TO EYE	EFFECTS TO LUNG	OTHER
Irritant	May be irritating if hot.	

EMERGENCY AND FIRST AID PROCEDURES, EFFECTS OF OVER EXPOSURE

EYES: Flush thoroughly with water, consult physician.

SKIN: Wash thoroughly with soap and water. Launder clothes before reuse.

INHALATION: Remove to fresh air; administer oxygen if necessary; consult physician.

INGESTION: Consult a physician.

NOTE TO PHYSICIAN: No specific antidote, treat symptoms.

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REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
Stable	Avoid vapor contact with open flame.
POLYMERIZATION	**CONDITIONS TO AVOID**
Will not occur	None

INCOMPATABILITY (MATERIALS TO AVOID)

Isocyanates; avoid contact unless mixed at proper ratio.

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon and nitrogen, hydrogen chloride and hydrogen flouride (corrisive).

SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Absorb on sweeping compound or other absorbent material. Provide sufficient ventilation to keep fluorocarbon vapor level below TLV of 1000 ppm.

WASTE DISPOSAL METHOD

Incinerate or dispose of in accordance with Federal, State and Local environmental and control regulations. See also "Recommendations for the Safe Use and Handling of Instapak® Foam-In-Place Chemicals."

SPECIAL PROTECTION DATA

RESPIRATOR TYPE

Cartridge respirator equipped for organic vapors if conditions require.

EYE PROTECTION	GLOVES
Safety glasses and/or goggles	Chemical resistant rubber or plastic

OTHER PROTECTIVE EQUIPMENT

Safety shower, eye wash station

SPECIAL PRECAUTIONS & STORAGE DATA

STORAGE TEMPERATURE (OPTIMUM)	AVERAGE SHELF LIFE
Min. 20°F Max. 100°F	12 months

SPECIAL SENSITIVITY (HEAT, LIGHT, MOISTURE)

None

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in cool area. Containers above 80°F will be under pressure and must be opened with care.

SHIPPING DATA

D.O.T. SHIPPING NAME		TECHNICAL SHIPPING NAME
N.A.		Poly (oxyalkylene) Polyol Mixture
D.O.T. HAZARD CLASSIFICATION	**UN/NA NO.**	**R.Q.**
Non-regulated	N.A.	N.A.
D.O.T. LABELS REQUIRED	**LABEL**	**T.S.C.A. STATUS**
None	N.A.	Listed
REASON FOR ISSUE:	**FRT. CLASS BULK:**	Polypropylene Glycol
Correction	**FRT. CLASS PKG:**	Polypropylene Glycol
INITIATED BY: / **TITLE:**		**APPROVED BY:** / **TITLE:**
Charles T. Story / Environ. Manager		Dr. Mitchell Berger/Dir., Chemical Opera.
DATE INITIATED:		**DATE APPROVED:**
April 1986		April 1986

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